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Press Release Date: June 19, 2002

Image Analysis System measures objects down to 1 micron.

Sorcerer Image Analysis System features high resolution 1300 x 1030 pixel CCD camera that is compatible with compact petri viewer or optical microscope. Using macro-programming language to initiate measurement sequences, system links to Excel® and automatically transfers data to MS Access®, Oracle 9®, and other popular databases.

Sorcerer is suitable for particle size and shape analysis, porosity, spray droplet sizing, and corrosion analysis.

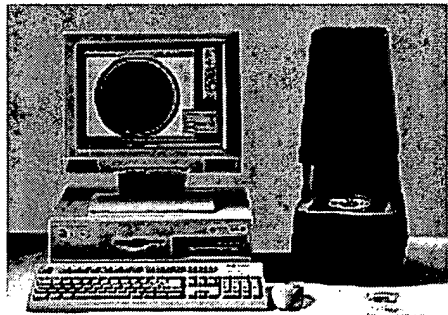


Image Analysis System Measures Objects Down to 1 micron

An upgraded and versatile video camera based image analysis system that is suitable for a wide range of biological and materials sciences applications has been introduced by Optomax of Hollis, New Hampshire.

The Optomax Sorcerer Image Analysis System features a high resolution 1300 x 1030 pixels CCD camera that is totally compatible with a compact petri viewer or an optical microscope, and can analyze objects down to 1 micrometer. Using a simple macro-programming language to initiate measurement sequences, the system links to Excel® and has been upgraded to automatically transfer data to MS Access®, Oracle 9®, and other popular databases.

Complying fully with FDA 21 CFR, Part 11 final rule, for R&D and quality assurance testing, the Optomax Sorcerer Image Analysis System is suitable for colony counting and sizing, unscheduled DNA synthesis, Ames testing, Chemotaxiz, Elispot assay, MIC assays, and other life sciences applications. Materials sciences applications include: particle size and shape analysis, porosity, spray droplet sizing, and corrosion analysis.

The Optomax Sorcerer Image Analysis System is priced from \$18,750.00, depending upon configuration. Literature is available upon request.

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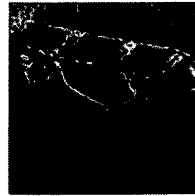
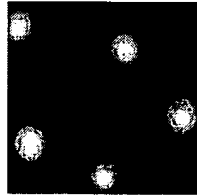
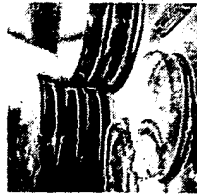
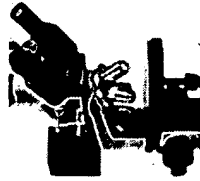
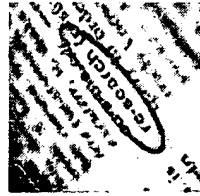
Optomax Image Analysis Products for Science & Industry

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Founded in 1976 to provide Scientific Instrument Sales and Support, Optomax represents quality Image Analysis products from Perceptive Instruments in the UK.

These Image Analysis systems have application in many areas of Life and Physical Sciences Research and Industry.

In the Life Sciences, applications are in the Pharmaceutical and Health Care industries, as well as Environmental Monitoring, Food and Manufacturing industries.

In the Physical Sciences, applications include Product Inspection in the Paper Industry and general Particle Size Analysis.

Life and Physical Sciences Image Analysis applications:

- | | |
|-------------------------|-------------------------|
| Ames testing | Inhibition zones |
| Cell counting | Paper dirt counting |
| Chemotaxis assay | Pulp & Paper inspection |
| Colony counting | Particle Size Analysis |
| Composite materials | Plaque counting |
| Contamination in fluids | Porosity in ceramics |
| Elispot assay | Print quality |
| Etch pit analysis | Spray droplet sizing |

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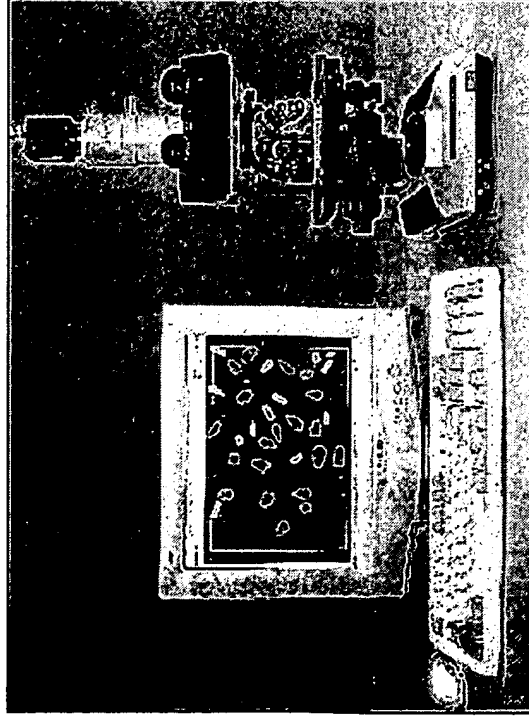
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Sorcerer Image Analysis System

[PDF Brochure](#)



Sorcerer applications include:

- Antibiotic susceptibility and MIC assays
- Chemotaxis
- Colony counting and sizing
- Direct Epi-fluorescent filter technique
- ELISPOT assay
- Inhibition zone measurements
- Multipoint plate scanning
- Particle size and shape analysis
- Plaque counts
- Pulp and paper quality
- Unscheduled DNA synthesis (UDS)

Introduction

The Sorcerer Image Analysis system is a powerful, automatic measurement system with a wide range of applications in both the life and material sciences. The system has been developed to provide a versatile and fast analytical tool for research and quality control.

Sorcerer utilizes a monochrome CCD video camera linked to an appropriate optical device such as a Light Microscope, Petri-viewer or Macro-viewer to image samples for analysis. Various optical and illumination techniques are available to ensure an optimal image is presented for analysis. The video image is transferred to a personal computer via an image acquisition card and the computer monitor displays the live image together with status and tool bars, in a Sorcerer program window.

The system detects and measures objects by virtue of contrast differences and has a resolution of 768 x 576 square pixels and the full 256 gray level range. This allows accurate sizing of microscopic particles ranging in size from one micron diameter upwards.

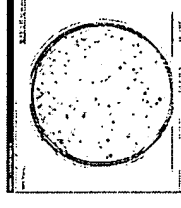
An optional high resolution (1280 x 1030) version of Sorcerer is also available for particularly demanding applications. Sorcerer utilizes a matrix detection algorithm for situations where image shading is encountered, induced by the sample or the illumination used. The image can be inverted to allow those objects which appear lighter than the background to be analyzed.

Functionality & Ease of Use

The Sorcerer program includes a wide range of customization & measurement parameters. Once program settings have been optimized for a given application, they are saved in a named Configuration file for future use

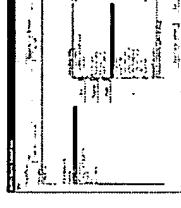
Measurement Frames

Circular, rectangular and user-drawn measurement frames are available to suit the sample type and to select particular regions for analysis. These are positioned and their dimensions adjusted using the two button mouse.



Macro Builder

An easy to use macro builder allows you to create a sequence of operations for a particular type of analysis. For example, to prompt the user to enter sample details, perform image processing functions, measure and transfer the data



Lock Controls

The Lock Controls dialog gives supervisors the ability to deny Users access to different system functions, in order that such functions remain unchanged whilst in routine use. It is also possible to activate prompts for GLP reasons required when deleting a measurement, or exiting without saving data etc. for compliance with Good Laboratory Practice.

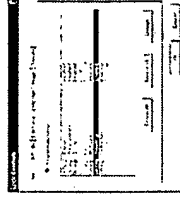


Image Editor

A binary image editing facility is also available to modify the image prior to measurement, for example to remove artifacts.



Access Levels

Sorcerer has User, Advanced User and Supervisor levels of access controlled by a simple user administration interface. An optional advanced user administration program is available for use with Access or Oracle designed to comply with the FDA 21 CFR Part 11 Final Rule on Electronic Records and Electronic Signature.

Measurements & Results

Measurements, Size Distributions, Data filtering and Real time data transfer to multiple formats

Sorcerer generates Field and Feature specific style measurements.

Morphometric data include Object Count, Area, Perimeter, Diameter, Fiber Length, Longest Dimension, Gray level and PPM.

Comprehensive software for analysis of individual objects allows objects to be classified according to their size or shape.

Size classification tables are easily defined and can include up to 50 classes in any progression and on any measurement parameter such as Diameter or Area.

Include/exclude filters with logical AND/OR combinations can be used to accept/reject objects based on any measured parameter.

Measured data are transferred directly to Microsoft Excel and can be further processed as required with user macros.

Data may also be transferred directly to Microsoft Access and Oracle database tables.

For easy import into third party applications, Sorcerer can also export data in CSV (Comma Separated Values) file format.

Images captured by the camera can also be saved to disk for future retrieval or transfer to document processing software.

Meeting Regulatory Requirements

Sorcerer is designed to conform to international GLPs and other regulatory requirements. Encoded audit trail files automatically record all system activity and all data. The system is fully compliant with the FDA 21 CFR Part 11 Final Rule on Electronic Records and Electronic Signature. Comprehensive support is available for specific data processing requirements such as integration with bar code readers, LIMS and other third party software.

Sorcerer Image Analysis System Technical Specification

Optical Input	Light Microscope, Petri-viewer or Macro-viewer.
Resolving Power	1 um diameter with light microscope, 10 um diameter with Macro-viewer (High resolution option).
Count Speed	0-1 seconds per measurement.
System Resolution	Monochrome CDD video camera. Standard system: 256 gray levels at 768x576 pixels resolution. High resolution system: 256 gray levels at 1280x1030 pixels resolution.
Video Invert	Selectable for objects darker or lighter than background.
Image Display	Live or frozen image of sample on screen with optional color coding of detected objects. Point & Click facility to display parameters of individual objects. Each object counted is flagged. High resolution pan and zoom window.
Detection Modes	Automatic, straight & matrix detection thresholds to overcome image shading due to uneven illumination or sample variation.

Measurement Frames	Circular & rectangular, variable in size & position. User-drawn irregular shaped frame. Programmable scanning frame for multi-point or micro-titre plate applications.
Image Processing	Automatic pre-processing of the image prior to measurement. Includes sharpen, remove, separate, erode, dilate & hole fill.
Image Editing	User interaction with the image to exclude or include specific regions of the sample to avoid interference from debris or labels. Cut, join, include, exclude, dilate, erode & fill.
Filters	A range of parameters can be used singly or in Boolean combinations to automatically discriminate between colonies or debris provided they differ in size, shape or intensity. They include circularity, axial ratio, area, diameter, longest dimension and gray level.
Size Classification	Classification by any one of 12 parameters including area, diameter, intensity. Unlimited number of size tables with up to 50 classes in any progression.
Image Capture	Images can be saved and retrieved as Windows Bitmap files. Auto image save & save with prompt for each measurement.
Macro Builder	Simple-to-use editor to create measurement macros for specific tasks. Includes single step replay to assist development. No programming skills required.
Data Handling	Measurement data transferred directly to Microsoft Excel workbook. Highly configurable results tables based on Excel for Study details, dilution factors, sample codes, count/plate, count/ml, size distributions, date, time, user, comments etc. Measurements can be made either from Sorcerer or Excel. Direct transfer of data to Microsoft Access and Oracle database tables Support for third party data processing applications e.g. spreadsheets, databases, LIMS, Ames data programs Data transfer via OLE or Dynamic Link Libraries Bar code readers can be used to enter sample details
Configurations	Multiple configurations can be saved for different applications e.g. Colony counting, Chemotaxis, Particle Sizing, Print Quality
Audit Trails	Encoded audit trail files automatically record all system activity including settings, measurement data and edits. Audit data can also be sent direct to Oracle databases.
Electronic Records & Signatures	Configurable interface to a database of authorized users. Optional User Administration program available for use with Access or Oracle for compliance with the FDA 21 CFR Part 11 Final Rule on Electronic Record & Electronic Signature.
User Levels	Supervisor, Advanced User & User levels.

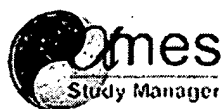
User Access Rights	Supervisors may lock any of the menus, or selected options within them, to deny Users & Advanced Users access to particular functions.
Minimum Specification	PC with minimum 64 MB Ram, true color display at 1024x768 pixels resolution with Microsoft Windows 98 or later. Requires one free PCI expansion slot for image card.

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Telephone: +44 1440 730773

Fax: +44 1440 730630

Sorcerer
Colony CounterSystem Access
ManagerElectronic signature auditing & control

Welcome to Perceptive Instruments

Perceptive Instruments Ltd., founded in 1990, develops, manufactures and supplies image analysis and data processing solutions for many areas of scientific research and industry. Our products are used primarily in the pharmaceutical & health care industries, as well as environmental monitoring, food and manufacturing industries.

All our products are designed to fulfil the requirements of **Good Laboratory Practice, FDA 21 CFR Part 11** and other international regulatory requirements. We operate a **Quality Management System to ISO 9001:2000** as approved by Lloyds Register Quality Assurance, the UKAS & RAB accredited certification body.

We have established an enviable reputation based upon our willingness and ability to completely satisfy our clients' needs. We provide standard 'off the shelf' systems and customised solutions based on current and novel technologies.

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About Us

Perceptive Instruments Ltd., founded in 1990, develops, manufactures and supplies image analysis and data processing solutions for many areas of scientific research and industry. With over 60% of sales made outside the United Kingdom, we have experience in exporting our products throughout the world.

Our commitment to quality of service and products both before and after sales is total - but don't just take our word for it:

Lloyd's Register Quality Assurance, the UKAS accredited certification body for quality assurance, has awarded approval of our Quality Management System to the new international standard ISO9001:2000 and TickIT. You can view a copy of our certificate online [here](#).

Our products are used primarily in the pharmaceutical & health care industries, as well as environmental monitoring, food and manufacturing industries. We have established an enviable reputation based upon our willingness and ability to completely satisfy our clients needs.

We provide standard 'off the shelf' systems and customised solutions based on current or novel technologies. Examples of special solutions include systems for antibiotic testing, vaccine development and robot vision.

Perceptive Instruments - A Brief History

Dec 2002	Approved by LRQA to ISO 9001:2000 and TickIT issue 5
Oct 2002	Ames Study Manager software suite launched for conducting the Ames test.
Jun 2002	Comet Assay III software launched.
Nov 2001	Launch of high resolution Sorcerer system for general purpose image analysis & colony counting.
Sep 2000	Launch of Sorcerer colony counting system with new Petri-viewer.
Dec 1999	Approved by Lloyds Register Quality Assurance to ISO 9001 and TickIT.
Oct 1998	Unscheduled DNA synthesis scoring and data processing system developed.
Aug 1998	Sorcerer automatic image analysis system launched to replace Domino.
Oct 1997	Custom morphometry systems supplied for fisheries research.
Jan 1997	SpeckCheck 2 paper analysis system launched.
Dec 1996	Supplied customised system for screening vaccines against Meningitis.
Feb 1995	Relocation to larger premises at Steeple Bumpstead.

Dec	1994	First release of Comet Assay II software.
Oct	1994	Supplied vision system for robotic colony picking station.
Sep	1994	Cardinal automatic colony counter launched.
Sep	1992	Comet Assay I software added to Colourmorph for automatic analysis.
Jul	1992	Special version of Domino supplied for automotive materials analysis.
Feb	1992	Customised Domino system supplied for inhibition zone bioassays.
Dec	1990	Speck Check scanner based system for analysis of pulp and paper launched.
Sep	1990	Domino automatic image analysis and colony counting system introduced.
Jun	1990	Colourmorph interactive image analysis system launched.
May	1990	Perceptive Instruments Ltd formed to develop, manufacture and supply image analysis systems.

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Get the PowerPoint Demo Presentation
for Sorcerer here

Sorcerer is a powerful, automatic image analysis system which can be used for a wide range of applications in life and materials sciences. Sorcerer has been developed to provide a versatile and fast analytical tool for research and quality control.

Sorcerer consists of an image analysis board that occupies one expansion slot of a personal computer. A monochrome CCD video camera is used to view the sample, either with a microscope, Petri-viewer, or macro stand & lens. Various optical and illumination techniques are available to ensure an optimal picture is presented for analysis. The computer monitor displays the live image within a window together with status and tool bars.

The system detects and measures objects by virtue of contrast differences and has a resolution of 768 x 576 synchronised square pixels and the full 256 grey level range. This allows accurate sizing of microscopic particles ranging in size from about one micron diameter upwards. An optional high resolution (1280 x 1030) version of Sorcerer is also available for particularly demanding applications.

Sorcerer utilises a matrix detection algorithm for situations where shading is encountered, either induced by the sample or the illumination used. The image can be reversed to allow those objects which appear lighter than the background to be analysed.

Circular, rectangular and user-drawn measurement frames are available to suit the sample type and to select particular regions for analysis. These are positioned and their dimensions adjusted using the three button mouse.

An easy to use macro builder allows you to create a sequence of operations for a particular type of analysis. For example, to prompt the user to enter sample details, perform image processing functions, measure and transfer the data.

Sorcerer has software for both field and feature specific measurements. Field measurements include count, area, perimeter, grey level and PPM. Feature measurements which relate to individual objects include, area, diameter, longest dimension and position.

Size classification tables are defined by the supervisor and can include up to 50 classes in any progression and on any feature measurement parameter. Feature measurements can be used as include/exclude filters singly, or in logical and/or combinations.

Sorcerer data is transferred directly to Microsoft Excel and can be processed as required with macros set up either by Perceptive Instruments or by the user. It is also possible to instruct Sorcerer to perform a measurement from within Excel or other applications. Data can also be transferred directly to Microsoft Access and Oracle database tables. Images captured by the camera can also be saved to disk for future retrieval and transfer to document processing software.

Sorcerer is designed for use in regulatory environments and includes auditing of all system settings and data, reasons for edits, password protection, timeouts etc. It is fully compliant with the FDA 21 CFR Part 11 Final rule on Electronic signature and records.

Applications

- Colony counting and sizing
- Antibiotic susceptibility and MIC assays
- Unscheduled DNA synthesis (UDS)
- Particle size and shape analysis
- ELISPOT assay
- Pulp and paper quality
- Mouse lymphoma assay
- Chemotaxis
- Direct Epi-fluorescent filter technique
- Technical Specification
- Accessories and Custom Software
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Sorcerer - Technical Specification

Scanning Device	Monochrome CCD camera for macro & microscopic imaging. High resolution option.
Sensitivity & Resolution	Standard resolution 256 grey levels at 768 x 576 pixels, High resolution 1280 x 1030 pixels
Measurement Times	Typically less than 1 second for each field of view.
Video Invert	Selectable for objects darker or lighter than the background.
Detection Algorithms	Standard and Matrix.
Grey scale Histogram	256 grey level histogram displayed on screen.
Measurement Frames	Circular & rectangular variable in size and position. User drawn irregular include and exclude frames.
Field Measurements	Field Count, Field Area, Frame Area, No. objects excluded, Field PPM, Field Perimeter, Mean Grey Level, Total Object Area, Total Object Perimeter, Total Object EBA, Mean Object Grey Level, Total Object PPM.
Feature Measurements	Position, Area, Filled Area, Perimeter, Longest Dimension, Fibre Length, Fibre Width, Axial Ratio, X Feret, Y Feret, 45 Feret, 135 Feret, Equivalent Diameter, Circularity, Mean Grey Level, Equivalent Black Area (EBA).
Image Editing	Cut, join, include; exclude all, dilate, erode and fill.
Filters	Feature measurement parameters can be used as include/exclude filters singly, or in logical and/or combinations.
Image Display	Live or frozen 256 grey scale image of sample on screen with optional colour coding of detected objects. Point & shoot facility to measure an individual object. Count flags

<i>Image Processing</i>	on separated objects. High resolution zoom window.
<i>Calibration</i>	Binary remove, erode, dilate, separate and hole fill. Variable grey level sharpening. Matrix shade compensation.
<i>Macro Builder</i>	Multiple calibration factors can be saved for different microscope objectives and lenses. Simple to use editor to create measurement macros for specific tasks. Includes single step replay to assist development. No programming skills are required.
<i>Size Classification Tables</i>	Defined by the supervisor, up to 50 classes in any progression and on any parameter. Unlimited number of tables can be saved for routine use.
<i>Data Handling</i>	Configurable results table including derived parameters displayed on screen. Data transfer directly to Microsoft Excel. Template for Field, Feature, Histogram, PSA, Summary, User defined, CSV and Output tables. Measurements can be made either from Sorcerer or Excel.
<i>Configurations</i>	Data transfer via Object Link Embedding (OLE) and Dynamic Link Libraries (DLL). Direct transfer of data to Microsoft Access and Oracle database tables. Multiple configurations can be saved for different applications eg. PSA, colony counting, UDS, antibiotic assays.
<i>Image Capture</i>	Image can be saved and retrieved as a Windows Bitmap file.
<i>Headings</i>	Results tables can be customised with up to ten headings. Configurable to default to blank or previous entry.
<i>Electronic signature & Records</i>	Total compliance with FDA 21 CFR Part 11 Rule. Interface to link with a supplied or any client database of authorised users.

Access Levels

Supervisor, Advanced User and user access levels

User administration programs

Additional locks on individual menus and menu items

GLP compliance

Encoded audit trail files record all original and edited data with reason, date, time and by whom as well as all system configuration settings and changes made during analysis

Variable, timed user logouts and password expiry

Recommended minimum configuration for Sorcerer:

- IBM PC compatible with Pentium II 266 processor
- 64 MB RAM system memory, 4MB video RAM (8MB for Hi-Res option)
- 17" Colour display at 1024 x 768 resolution (19" Colour display at 1600 x 1200 for high resolution option), 24 bit true colour
- Microsoft 2 button/Logitech 3 button mouse
- Microsoft Windows 95, 98, NT, 2000 or XP

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